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## **CLAIMS**

We claim:

- A method of creating an interface in a contextualized interaction
   environment for use in a computing device, comprising:
  - a. receiving user instruction regarding information displayed on the interface, said interface represented in the contextualized interaction environment by a node map;
  - b. updating said internal node map in accordance with said user instruction; and
    - c. displaying the interface in accordance with the updated internal node map.
  - 2. The method of claim 1, wherein said node map is arranged to represent said user information in a particular context on the interface.
  - 3. The method of claim 2, further comprising adding new information for display on the interface.
  - 4. The method of claim 3, wherein said new information is represented in said node map by adding a new node thereto.

- 5. The method of claim 4, wherein said new information is related to existing information, such that said new node is linked to an existing node in said node map to form a relationship.
- 5 6. The method of claim 5, where said new node inherits all properties of said existing node.
  - 7. The method of claim 2, further comprising deleting existing information from display on the interface.
  - 8. The method of claim 7, wherein said deleting of existing information is represented in said node map by removing an existing node that corresponds to the information being deleted.
  - 9. The method of claim 2, wherein said user information is represented in a particular context on the interface by utilizing a content abstraction layer, said content abstraction layer comprising links to at least one of content, applications, services and devices.
- 10. The method of claim 9, wherein said content abstraction layer comprises abstraction information on said content, said applications, said services, and said devices.

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11. The method of claim 2, further comprising transmitting information regarding the interface to a remote master device, wherein said master device is capable of controlling processing of information on the computing device.

- 12. The method of claim 11, wherein said master device is connected to a service provider, such that the computing device is able to utilize services provided by said service provider.
- 13. The method of claim 11, wherein said master device is connected to a plurality of computing devices.
- 14. The method of claim 13, wherein said master device stores node maps from each of said plurality of computing devices connected thereto.
- 15. The method of claim 14, wherein a plurality of users of said plurality of computing devices are enabled to communicate therebetween in a peer-to-peer network.
- 16. The method of claim 2, wherein said interface may be adjusted to interallow display of the user information in a plurality of display formats.
- 17. The method of claim 16, wherein said plurality of display formats are interchangeable.

- 18. The method of claim 2, wherein said node map comprises a plurality of nodes.
- The method of claim 18, wherein said node is one of a note node, an
  attachment node, an action node and an application node.
  - 20. The method of claim 19, wherein said attachment node has an attachment locator linked thereto for allowing usage of an attached file associated therewith.
  - 21. The method of claim 19, wherein said action node has a built-in capacity of creating another node, removing an existing node, or running node applications.
  - 22. The method of claim 19, wherein said application node has a built-in application functionality associated therewith.
  - 23. The method of claim 19, wherein said note node contains a link to a second node map.
  - 24. The method of claim 19, wherein said node has a profile associated therewith.
    - 25. The method of claim 24, wherein said profile is used to define the attributes of said node.

26. The method of claim 25, wherein said attributes further define the security level of said node.

27. A system for creating an interface in a contextualized interaction environment for use in a computing device, comprising:

- a. a memory; and
- b. a processor in communication with said memory, said processor

5 configured for:

receiving user instruction regarding information displayed on the interface, said interface represented in the contextualized interaction environment by a node map;

updating said internal node map in accordance with said user instruction,

and

displaying the interface in accordance with the updated internal node map.

- 28. The system of claim 27, wherein said node map is arranged to represent said user information in a particular context on the interface.
- 29. The system of claim 28, wherein said processor is further configured for adding new information for display on the interface.
- 30. The system of claim 29, wherein said new information is represented in said node map by adding a new node thereto.

- 31. The system of claim 30, wherein said new information is related to existing information, such that said new node is linked to an existing node in said node map to form a relationship.
- 5 32. The system of claim 31, wherein said new node inherits all properties of said existing node.
  - 33. The system of claim 28, wherein said processor is further configured for deleting existing information from display on the interface.
  - 34. The system of claim 33, wherein said deleting of existing information is represented in said node map by removing an existing node that corresponds to the information being deleted.
  - 35. The system of claim 28, wherein said user information is represented in a particular context on the interface by utilizing a content abstraction layer, said content abstraction layer comprising links to at least one of content, applications, services and devices.
- 36. The system of claim 35, wherein said content abstraction layer comprises abstraction information on said content, said applications, said services, and said devices.

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37. The system of claim 28, wherein said processor is further configured for transmitting information regarding the interface to a remote master device, wherein said master device is capable of controlling processing of information on the computing device.

- 38. The system of claim 37, wherein said master device is connected to a service provider, such that the computing device is able to utilize services provided by said service provider.
  - 39. The system of claim 37, wherein said master device is connected to a plurality of computing devices.
  - 40. The system of claim 39, wherein said master device stores node maps from each of said plurality of computing devices connected thereto.
  - 41. The system of claim 40, wherein a plurality of users of said plurality of computing devices are enabled to communicate therebetween in a peer-to-peer network.
  - 42. The system of claim 28, wherein said interface may be adjusted to interallow display of the user information in a plurality of display formats.
  - 43. The system of claim 42, wherein said plurality of display formats are interchangeable.

- 44. The system of claim 28, wherein said node map comprises a plurality of nodes.
- 45. The system of claim 44, wherein said node is one of a note node, an attachment node, an action node and an application node.
  - 46. The system of claim 45, wherein said attachment node has an attachment locator linked thereto for allowing usage of an attached file associated therewith.
  - 47. The system of claim 45, wherein said action node has a built-in capacity of creating another node, removing an existing node, or running node applications.
  - 48. The system of claim 45, wherein said application node has a built-in application functionality associated therewith.
  - 49. The system of claim 45, wherein said note node contains a link to a second node map.
- 50. The system of claim 45, wherein said node has a profile associated 20 therewith.
  - 51. The system of claim 50, wherein said profile is used to define the attributes of said node.

52. The system of claim 51, wherein said attributes further define the security level of said node.

- 53. A system for creating an interface in a contextualized interaction environment for use in a computing device, comprising:
- a. means for receiving user instruction regarding information displayed on the interface, said interface represented in the contextualized interaction environment by a node map;
- b. means for updating said internal node map in accordance with said user instruction, and
- c. means for displaying the interface in accordance with the updated internal node map.
- 54. The system of claim 53, wherein said node map is arranged to represent said user information in a particular context on the interface.
- 55. The system of claim 54, further comprising means for adding new information for display on the interface.
- 56. The system of claim 55, wherein said new information is represented in said node map by adding a new node thereto.
- 57. The system of claim 56, wherein said new information is related to existing information, such that said new node is linked to an existing node in said node map to form a relationship.

- 58. The system of claim 57, wherein said new node inherits all properties of said existing node.
- 59. The system of claim 54, further comprising means for deleting existing
   5 information from display on the interface.
  - 60. The system of claim 59, wherein said deleting of existing information is represented in said node map by removing an existing node that corresponds to the information being deleted.
  - 61. The system of claim 54, wherein said user information is represented in a particular context on the interface by utilizing a content abstraction layer, said content abstraction layer comprising links to at least one of content, applications, services and devices.
  - 62. The system of claim 61, wherein said content abstraction layer comprises abstraction information on said content, said applications, said services, and said devices.
  - 63. The system of claim 54, further comprising means for transmitting information regarding the interface to a remote master device, wherein said master device is capable of controlling processing of information on the computing device.

- 64. The system of claim 63, wherein said master device is connected to a service provider, such that the computing device is able to utilize services provided by said service provider.
- 65. The system of claim 64, wherein said master device is connected to a plurality of computing devices.
- 66. The system of claim 65, wherein said master device stores node maps from each of said plurality of computing devices connected thereto.
- 67. The system of claim 66, wherein a plurality of users of said plurality of computing devices are enabled to communicate therebetween in a peer-to-peer network.
- 68. The system of claim 54, wherein said interface may be adjusted to interallow display of the user information in a plurality of display formats.
- 69. The system of claim 68, wherein said plurality of display formats are interchangeable.
- 70. The system of claim 54, wherein said node map comprises a plurality of nodes.

71. The system of claim 70, wherein said node is one of a note node, an attachment node, an action node and an application node.

- 72. The system of claim 71, wherein said attachment node has an attachment locator linked thereto for allowing usage of an attached file associated therewith.
  - 73. The system of claim 71, wherein said action node has a built-in capacity of creating another node, removing an existing node, or running node applications.
  - 74. The system of claim 71, wherein said application node has a built-in application functionality associated therewith.
  - 75. The system of claim 71, wherein said note node contains a link to a second node map.
  - 76. The system of claim 75, wherein said node has a profile associated therewith.
- 77. The system of claim 76, wherein said profile is used to define the attributes of said node.
  - 78. The system of claim 77, wherein said attributes further define the security level of said node.

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- 79. An interface created in a contextualized interaction environment for use in a computing device, said computing device comprising:
  - a. display,
  - b. a processor in communication with said display,
  - c. a data entry device in communication with said processor;
  - d. a storage unit in communication with said processor; and
- e. software means in communication with said processor, said software means for:

receiving user instruction regarding information displayed on the interface, said interface represented in the contextualized interaction environment by a node map, updating said internal node map in accordance with said user instruction, and displaying the interface in accordance with the updated internal node map.

- 80. The interface of claim 79, wherein storage unit stores at least one of data, operating system and Java virtual machine.
- 81. The interface of claim 79, wherein storage unit further stores a contextualized interaction environment software.
- 82. An apparatus for providing a user interface comprising elements that represent at least one context, the user interface being modifiable by a user for interactive communication with a display and a common interface, said common interface carrying

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enablement elements for said user interface for communication between said common interface

and at least one computing device, said communication comprising authentication information

linked to said common interface, said communication between said interface and said at least one

computing device being based on said authentication information linked to said common

5 interface.

83. The apparatus of claim 82, wherein authentication information is

transmitted by a mobile phone to said common interface.

84. The apparatus of claim 83, wherein transmission link is a low power rf.

85. The apparatus of claim 82, wherein said communication further includes

sensor data and master device location information.